

AMENDMENTS TO THE CLAIMS

Please amend the claims to read as indicated in the following list of claims:

1. (currently amended) An automatic video summarizer comprising:

an input unit for receiving a video source to be summarized and a desired summarization time from a user;

an importance measurement module for generating importance degrees according to category characteristics of the video and a purpose of desired summary;
and

a video summarization generation module for applying shot information and an importance value to a characteristic support vector algorithm, and generating video summary;

wherein the video summarization generation module comprises a scalability processing module for receiving the summarization time information from the user, repeatedly performing a scalability process, and generating a video summary having a time range desired by the user.

2. (original) The automatic video summarizer of claim 1, wherein the characteristic support vector algorithm is the OC-SVM (one-class support vector machine) algorithm.

3. (original) The automatic video summarizer of claim 1, wherein the characteristic support vector algorithm is the fuzzy OC-SVM algorithm.

4. (original) The automatic video summarizer of claim 1, further comprising a shot detection module for extracting the video sources for respective shots.

5. (previously presented) The automatic video summarizer of claim 1, comprising:

an output unit for outputting the generated video summary to a screen; and a storage unit for storing the generated video summary.

6. (currently amended) The automatic video summarizer of claim 5, wherein the video summarizationy generation module comprises:-

a characteristic support vector module for applying the shot information and the importance value to the characteristic support vector algorithm, and generating a video summary;
and

~~—a scalability processing module for receiving the summarization time information from the user, repeatedly performing a scalability process, and generating a video summary having a time range desired by the user.~~

7. (original) The automatic video summarizer of claim 6, wherein the shot detection module detects a shot from the video source to be summarized, configures a shot list, and transmits the shot list to the video summarization generation module.

8. (currently amended) An automatic video summarization method comprising:

(a) receiving, by an automatic video summarizer, a video source to be summarized and a desired summarization time from a user;

(b) extracting, by the automatic video summarizer, the video source for each shot;

(c) generating, by the automatic video summarizer, importance degrees according to the video's category characteristic and a purpose of desired summary; and

(d) applying, by the automatic video summarizer, shot information and an importance value to a characteristic support vector algorithm, and generating a video summary,

wherein the automatic video summarizer receives the summarization time information from the user, repeatedly performs a scalability process, and generates a video summary having a time range desired by the user.

9. (original) The automatic video summarization method of claim 8, wherein the characteristic support vector algorithm is the OC-SVM (one-class support vector machine) algorithm.

10. (original) The automatic video summarization method of claim 8, wherein the characteristic support vector algorithm is the fuzzy OC-SVM (one-class support vector machine) algorithm.

11. (previously presented) The automatic video summarization method of claim 8, further comprising:

outputting the generated video summary to the screen; and
storing the generated video summary.

12. (original) The automatic video summarization method of claim 11, wherein (d) comprises applying the shot information and the importance value to the characteristic support vector algorithm, generating a video summary, repeatedly performing a scalability process based on the summary time information received from the user, and generating a video summary which has a time range desired by the user.

13. (currently amended) An automatic video summarization method comprising:

(a) receiving, by an automatic video summarizer, a video source to be summarized and a desired summarization time from a user;

(b) generating, by the automatic video summarizer, importance degrees according to the video's category characteristic and a purpose of desired summary;

(c) applying, by the automatic video summarizer, shot information and an importance value to a characteristic support vector algorithm, and generating a video summary;

(d) outputting, by the automatic video summarizer, the generated video summary to a screen; and

(e) storing, by the automatic video summarizer, the generated video summary,

wherein the automatic video summarizer receives the summarization time information from the user, repeatedly performs a scalability process, and generates a video summary having a time range desired by the user.

14. (original) The automatic video summarization method of claim 13, wherein the characteristic support vector algorithm is the OC-SVM (one-class support vector machine) algorithm.

15. (original) The automatic video summarization method of claim 13, wherein the characteristic support vector algorithm is the fuzzy OC-SVM algorithm.

16. (currently amended) A recording medium storing a program for an automatic video summarization method, comprising:

receiving, by an automatic video summarizer, a video source to be summarized and a desired summarization time from a user;

extracting, by the automatic video summarizer, the video source for each shot;

generating, by the automatic video summarizer, importance degrees according to the video's category characteristic and a purpose of desired summary; and

applying, by the automatic video summarizer, shot information and an importance value to a characteristic support vector algorithm, and generating a video summary,

wherein the automatic video summarizer receives the summarization time information from the user, repeatedly performs a scalability process, and generates a video summary having a time range desired by the user.

17. (original) The recording medium of claim 16, wherein the characteristic support vector algorithm is the OC-SVM (one-class support vector machine) algorithm.

18. (original) The recording medium of claim 16, wherein the characteristic support vector algorithm is the fuzzy OC-SVM algorithm.